

On the Velocity Distribution of the Electrons produced by the Field Emission, by Erwin W. Muller, 14 pp.

GERMAN, per, Zeitschrift fuer Physik, Vol CXX, p 261. (HP-2271)

S.L.A. Tr No 424/1955

Sci - Physics
Jan 1957 CTS/dex

45,818

The Resolution Power of the Field Electron
Microscope, by E. W. Muller, 19 pp.

GERMAN, per, Zeit Fuer Physik, Vol CXX, p 270.
CIA 9016105

AEC Tr 419

Sci - Electronics
Jun 59

89,967

Concerning the Methodology of Neutron-Probes,
by W. Bothe

GERMAN, per, Zeitschrift fur Physik, Vol CXX,
1953, pp 437-449.

AEC Tr 1691

Scientific - Physics
ers/dex

5722

The "Observable Quantities" in the Theory of
Elementary Particles, by W. Heisenberg, 56 pp.

GERMAN, per, Z Physik, Vol CXX, 1943, pp 513-538.

101-1216

ABC NCRL Tr-808

Sci - Phys
Jun 62
List 69

197,837

Dioptric of Electron-Optical Apparatus With
Arbitrary Curved Diagram Axes, by Georg Wendt, 26 pp.

GERMAN, per, Z. Physik, Vol CXX, 1942-1943, pp
720-740, 2

SLA 831/1955
AEC Tr 1710
AEC Tr 1778

Scientific - Physics

CTB/DEX

7307

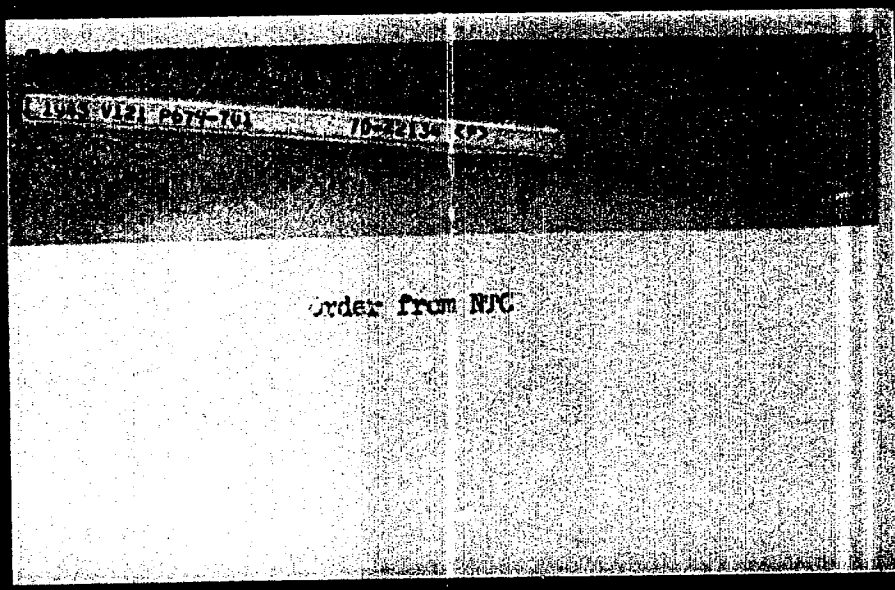
On the Migration of Inert Gases in Metals, by W.
Lumpe, R. Seeliger, UNCLASSIFIED

GERMAN, per, Z. Phys., Vol CXXI, Nos. 9, 10,
1943, pp 546-559

TPA3/TIB
T 4232

Scientific - Physics

15,507



Natural Elastic Vibrations of a Rectangular
Parallelepiped of Quartz, by R. Bechmann, 26 pp.

German

~~RUSSIAN~~, per, Z. Physik, Vol CXXII, No 5, 6, 7, 8,
19 May 1944, pp 510-525.

S.L.A. Tr 57-341

~~Heen~~ Geophysics

May 57 =

48, 703

Severin, Hans.
ABSORPTION SPECTRUM AND RADIATION FIELDS
OF THE HO³⁺ ION IN SOLID SALTS. [1961]
[24]p. 42 refs.
Order from SLA \$2.60

61-20008

Trans. of Zeitschrift für Physik (West Germany)
[1947] v. 125, p. 455-474.

DESCRIPTORS: Rare earth ions, Ions, *Holmium
compounds, *Sulfates, *Ethyl radicals, Absorption,
Fluorescence, Spectrographic data, Crystals,
Lattices.

(Chemistry--Physical, TT, v. 7, no. 9)

61-20008

I. Severin, H.

Office of Technical Services

Integral and Series Representations for the Various
Wave Types of Mathematical Physics in Coordinates
of the Paraboloid of Revolution, by Herbert
Buchholz, 33 pp.

GERMAN, per, Zeitschrift für Physik, Vol CXXIV,
1947-1948, pp 196-218. CIA D 151230

Air Res and
Dev Command

Scientific - Physics T - 36 G E

22,275

OTS 66/Mar 1955

Protons as the Primary Component of Cosmic Radiation,
by K. Hocker, 46 pp.

GERMAN, per, 2^{te} physik, Vol CXXIV, 1948, p 351-

SLA Tr 1566

Sci - Nuclear physics
Apr 1957

9410 1957

46,153

The Statistical Theory of Turbulence, by
W. Heisenberg, 19 pp.

GERMAN, per, Zeit fur Physik, Vol CXXIV, 1948,
pp 628-657.

CIA/FDD/XX-37

IAC INTERNAL USE ONLY

Scientific - Physics

Jan 56 CTS/DEX

29,627

TT-65-13913

Field 20H

Paul, W.; Wessel, G.
MEASUREMENT OF THE DENSITY AND AVERAGE
MOLECULAR SPEED IN AN ATOMIC BEAM. 9p (figs
omitted) 4refs.
Order from SLA: \$1.10 as TT-65-13913

Trans. of Zeitschrift fuer Physik (West Germany) v124
p691-9 1948.

MR 668

on the Theory of Coercive Force, by
H. Kersten.
GERSTEN, per, Z. Physik, Vol 124, No 9, 1948,
pp 714-741.
BISI 7214

sci/materials
jan 70

399,920

On the Equation of State at High Temperatures and
Densities, by Holmurt Steinvedal, J. Hans Jensen,
10 pp.

GERMAN, per, Z fuer Physik, Vol CXXIV, 1949,
pp 394-404. 9093321

AEC UCRL Tr-761(L)

Sci - Phys
Apr 62

191,302

Needle Counter and Counting Tube in Metal-Lographic
Surface Investigations, by J. Draker, 21 pp.

GERMAN, per, Z. Physik, Vol CXXV, 1949, pp 739-756.

9212829

AFR 80-T-519

Sci-Phys
Jan 64

248,351

Brix, Peter.

PHOTOGRAPHIC EFFECT OF MEDIUM SPEED
PROTONS: MEASUREMENTS ON AGFA-AUTOLITH
PLATES. [1961] [15]p. 17 refs.

Order from SLA \$1.60

62-10630

Trans. of Z[it]s[chrift] f[ür] Phys[ik] (West Germany)
1949, v. 126, p. 35-48.

DESCRIPTORS: *Photographic plates, Sensitivity, *Pro-
tons, Energy, Scattering, Silver compounds, Bromides,
Photographic emulsions.

Blackening curves recorded with 2.6-7.0 KeV energy
protons show a pronounced "hump" for low blackenings.
It is explained by means of the direct grain collisions
of the impinging protons within their radius of influence,
while the further rise of the blackening curves is traced
back to the secondary processes. It is shown that it is
(Materials--Photographic, TT, v. 7, no. 9) (over)

62-10630

I. Brix, P.
II. Title: Measurements ...

Office of Technical Services

Kossel, Dierick.

INTERFERENCES IN LAYERS WITH A TOTALLY
REFLECTIVE BORDER. [1961] 26p. (18 figs.
17 equations omitted) 7 refs.

Order from SLA \$2.60

62-10567

Trans. of Zeitschrift für Physik (West Germany) 1949,
v. 126, p. 233-260.

DESCRIPTORS: Vapors, Thin films, Reflection,
*Refractive index, Determination, Interference.

(Physics--Optics, TT, v. 7, no. 9)

62-10567

1. Kossel, D.

Office of Technical Services

Observation on the Limits of Detectability of Weak
Alkali Molecular Beams Through Ionization on Hot
Tungsten, by Friedrich Knauer, 11 pp.
GERMAN, per, Z fuer Physik, Vol CXXVI, 1949,
pp 310-318. 9222638
AEC-UCRL-Tr-1031

Sci-Phys
Jun 64

260,940

Analysis of Velocity Distribution in a Molecular
Beam by Measurement of Time of Flight, by
Friedrich Knauer, 18 pp.
GERMAN, per, Z fuer Physik, Vol CXXVI, 1949,
pp 319-335. 9220793
AEC-UCRL-Tr-1032

Sci-Phys
May 64

257,178

Agency: Air Force
P.O. #: AR-8-002

R-10474-8
19 June 69

Title: Über das Spannungsfeld einer Versetzung
Author: Günther Leibfried und Kurt Lucke
Source: Zeit. für Physik, Bd. 126, S. 450-464 (1949)

Language: German

15 pp

Special Instructions: Please translate and type 1 copy

Reductions of Thermal Forces to Ideal Purity
of Metals, by Max Kohler, 20 pp.
GERMAN, per, Z fuer Physik, Vol. XXVI, 1949,
pp 481-494.

Navy Tr 3885/NRL 983

NTC 70-23240

Sci - M/M
ASep 64

266,297

Naval Observatory
DEX

R-4048-D *129*
28 Apr 64

Reduction of Thermopower to Ideal Purity of Metals,
by Max Kohler; Z. fuer Physik, No 126, 1949, pp 481-494

German - estimated foreign words:

Type One clear double spaced copy. Cut and Paste up.
Literature citations need not be translated except
where some remarks are in German. Please copy titles
of articles of journals as shown in German, as well as
the titles of articles, etc.

On the Formulation of a General Diffraction
Problem Through an Integral Equation, by
A. W. Maue, 25 pp.

GERMAN, per, Zeit f Physik, Vol CXXVI, 1949,
pp 601-618.

29,470

CIA/FDD/XX-32
IAC INTERNAL USE ONLY

Scientific - Physics

Dec 55 CTS/DEX

Surface Migration of Tungsten on Its Own Crystal
Lattice, by Erwin W. Muller, 30 pp. ~~CONFIDENTIAL - SECURITY~~

GERMAN, per, Z fuer Physik, Vol CXXVI, 1949,
pp 642-665. 9097026

AEC Tr-4966

Sci - Phys
Mar 62

186, 498

Irregularities in Schuler Clocks caused by Tidal Forces, Earthquakes and Modifications of the Length of the Pendulum, by Christian Hoffrogge, 39 pp.

GERMAN, per, Z fur Physik, Vol CXXVI, No 7-9, 1949, pp 671-688.

SIA 60-14198

Sci
Jan 62
Vol III, No 10

179, 911

On KCl Crystals and Other Alkali Halides, by
H. Kelting.

GERMAN, per, Zeit Physik, Vol 126, 1949,
pp 697-710.

*Nat Bur Stand TT 70-57811

Sci-Chem
Jul 70

Remarks on the Mathematical Treatment of Complicated Diffusion Problems, by W. Jost, 14 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1950, pp 163-167.

SIA Tr 57-706

Sci - Mathematics

50,611

Aug 57

A New Method of Temperature Measurement in High-
Temperature Arc Columns, Part I, by Hans Bartels,
38 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1950, pp 243-273.

AEC Tr SCL-T-190

Sci - Phys

Sep 58

73, 741

The Image-Forming Properties of Sector-Shaped
Magnetic Fields, With a Discussion of the Effect
of the Stray Field, by W. Ploch, W. Walcher,
22 pp.

GERMAN, per, Z Physik, Vol CXXVII, 1970, pp 274-
288.

SLA Tr 2979

Sci - Electronics
Jan 58

(AEC-Tr 1674)
58,188

Absorption of X-Rays in the Case of Interference,
by G. Bornmann, 27 pp.

GERMAN, per, Zeitschrift für Physik, Vol 127,
1950, pp 297-323. F91119267

AEC ANL Tr-443

327,899

Sci - Nuclear Science

Jun 67

Effect of Thermally Excited Sound Waves on Plastic
Deformation, by G. Leibfried, 25 p.
GERMAN, per, Zeitschrift fuer Physik, Vol CXXVII,
No 4, 1950, pp 344-356.
SLA TT 66-10895

Sci-Phys
Jul 66

304,484

Braunock, Werner.
NEW APPROXIMATION METHOD FOR THE DIFFRACTION BY A PLANE SCREEN. [1960] 10p.
12 refs.

Order from SLA m\$1.80, ph\$1.80 61-10419

Trans. of Zeitschrift für Physik (West Germany) 1950,
v. 127, p. 381-390.

In addition to the Kirchhoff approximation, a series of newer approximation methods for the problem of the diffraction of a scalar wave by a plane screen with an opening or by a plane disk are discussed. None of them give exact results for small wave length (large ka), but neither do the exact solutions which are known in specific cases since their series converge poorly for large ka . In order to fill this gap, a new approximation method is developed which is specifically fitted to large ka and which makes use of substitute boundary values on the screen which have been taken from the exact Sommerfeld solution for diffraction by a half plane. (Physics--Wave Propagation, TT, v. 5, no. 7) (over)

61-10419

1. Electromagnetl. waves--
Diffraction
2. Diffraction--Mathematical
analysis
1. Braunock, W.

148,507-

Office of Technical Services

Radiation Measurements of Electrically Heated
SiC Rods, by W. Bruegel,
GERMAN, per, Zeit Phys, Vol 27, 1950, pp 400-404,
*AEC-tr-2866

Sci-Phys
Aug 69

Performance of the Quartz Clocks of the Physikalisch -
Technische Reichsanstalt and the Annual Variation of
the Length of the Astronomical Day, by A. Scheibe,
U. Adelsberger, 23 pp.

BERMAN, per, Z Physik, Vol CXXVII, No 4, 1950,
pp 416-428.

SIA Tr 57-997

Sci - Astronomy

Aug 57

52, 325

Diffraction of Polarized Light By Screens of
Finite Thickness in the Neighborhood of the
Boundary of the Shadow, by Kurt Artmann, 44 pp.

GERMAN, per, Zeitschrift für Physik, Vol CXXVII,
1950, pp 468-494. CIA D 151239

Air Res and
Dev Command

T-10 G E

Scientific - Physics

OTS 66/Mar 1955

22,277

The Linear Zeeman Effect in Crystals,
by K. H. Hellwege.
GERMAN, per, Z fuer Physik, Vol CXXVII, 1950,
pp 513-521. 9232278
AEC-AERE-Tr-1045

GB 45/11/3/5/2259

NTC 70-23706

Sci - Phys
Mar 66

297,865

On the Theory ~~XX~~ of Diffraction of a Screen,
by Walter Franz, 14 pp.

German
~~RUSSIAN~~, per, Zeit fur Physik, Vol CXXVIII,
1950.

29,474 CIA/FDD/XX-28

IAC INTERNAL USE ONLY

Scientific - Physics

Dec 55 CTS/DEX

Discoloration of Alkali Metal Halide Crystals by
High-Energy Radiation, by B. H. Dorendorf, H. Pick,
13 pp.
GERMAN, per. Z. Naturforsch., Vol CXXVIII, 1950,
pp 166-171. 9128839
AEC-SLAC-Tr-14

Sci-Phys
Jun 65

Supraconduction of Copper Sulfide, by W. Buckel, R. Hilsch,
16 pp.
GEMMAN, per, ~~Z. fuer Physik~~, Vol CXXVIII, 25 May 1950,
pp 324-346. 9691132

ACSI I-2493-A
ID 2232439

Sci - Phys
Mar 64

251,361

The Isotope Frequency of Boron Mass Spectrometric
Investigation of the Electron Impact Products of
 BF_3 and BCl_3 , by O. Osberghaus, 17 pp.

GERMAN, per, Z Physik, Vol CXXVIII, 1950, pp 366-
367.

AEC T, ~~3245~~ 3244

Sci p Physics
Jun 58

65,961

On the Loss of Energy of Fast Electrons in thin Layers,
by O. Blunck, S. Leisegang, UNCLASSIFIED

GERMAN, per, Z. f. Physik, Vol CXXVIII, 1950,
pp 500-505.

Navy Tr 487/NRL 381

Jan 52 CTS

Scientific - Physics

15,183

The Linear Zeeman Effect in Crystals,
by K. H. Hellwege.

GERMAN, per. Zeitschrift für Physik
Vol 127, pp 513-524, 1950.

*AEC

SEP
1965

Investigations With the Geiger Needle Counter
Established On Treated Worked NON-Metals, by
J. Kramer, 11 pp.

GERMAN, per, Z. Physik, Vol LXXVIII, 1950,
pp 538-545. 7018822

4FC-SC-T-520

Sci-Phys
Jan 64

248,353

A New Method of Temperature Measurement in High
Temperature Arc Discharges, Part II, by Hans Bartels,
35 pp. (Column)

GERMAN, per, Z Physik, Vol CXXVIII, 1950, pp
546-574.

AEC SCL T-202

Sci - Phys

Dec 58

77,437

On the Rectifying Action, by W. C. Geel, H. Emmens,
20 pp.

GERMAN: ber. Z Physik, Vol LXXXVII, No 3-4, 1951,
pp . 220-230.

SLA 58-292

Sci
Jul 59

93,012

A light arc for high power outputs, by Maecker, H.,
22 pp.

GERMAN, per, Z Physik, 129, 1951, p 108-122.
K

SIA 58-508
ARJ-SCL-T-133
C

Sc1

Aug 59

94,351

The Temperature and Pressure Effect on Electron Terms
in Crystals, by H. K. Pastzold, 28 pp.

GERMAN, per., Z fuer Physik, Vol CXXIX, 1951,
pp 123-139. 9685241

Emmanuel Coll Res Lang Ctr
E-T-G-63-9

Sci - Phys
Sep 63

344,115

INVESTIGATION OF THE SPATIAL DISTRIBUTION
OF BREMSSTRAHLUNG FROM 5 MEV BETATRON, BY
H. KULENKAMPF, M. SCHER, R. SCHITTENHELM,
33 PP.

GERMAN, PER, 2. EUER PHYSIK, VOL. CXXIX,
1951, PP 202-218. 9062362

AEC TR-2768

SCI - PHYS

NOV 61

173.204

63-20274

Thomas, Hans.
ON RESISTANCE ALLOYS. [1963] 16p. (figs omitted)
23refs
Order from SLA \$1.60 63-20274

Trans. of Zeitschrift für Physik (West Germany) 1951,
v. 129, p. 219-232

DESCRIPTORS: *Alloys, Crystals, Transition ele-
ments, Heat treatment, *Resistance (Electrical), De-
formation, *Heat resistant metals and alloys

A series of alloys consisting of primary mixed crystals
and containing at least one transition metal as a com-
ponent exhibits as a particularity that the resistance-
temperature curve is curved S-form and that the re-
sistance in the soft and in the hard state is increased by
heating treatment at low temperatures and decreased by
cold formation. This behavior can be attributed to the
fact that at low temperatures there develops a very
(Metallurgy, TT, v. 10, no. 11) (over)

1. Title: K-state
1. Thomas, H.

Office of Technical Services

61-11135

Larenz, Rudolf Wilhelm.
CONCERNING A METHOD FOR THE MEASURE-
MENT OF VERY HIGH TEMPERATURES IN NEARLY
TRANSPARENT ARC COLUMNS (Über ein Verfahren
zur Messung sehr Hoher Temperaturen in Nahezu
Durchlässigen Bogensäulen). [Paper] presented at
meeting of German Physical Society, British Zone,
Münster, 15 Apr 50. Dec 60, 20p. 7 refs. Technical
Trans. 1-54. AD-247 295.
Order from OTS \$0.50

61-11135

Trans. of Zeitschrift für Physik (West Germany) 1951,
v. 129, p. 327-342.

A method is presented of measuring the temperature
distribution across an arc column by use of a spectro-
graph. An equation is developed for the determination
of the electronic temperature that corresponds to the
point of maximum spectral line intensity across an arc
column. A graphical solution is given which relates
the various parameters such as statistical weights,
(Physics--Thermodynamics, TT, v. 5, no.7) (over)

- I. High temperature research
2. Electric arcs--Temperature
- I. Larenz, R. W.
- II. NASA TT-F-54
- III. National Aeronautics and
Space Administration
Washington, D. C.
- IV. Title: German Physical
Society...
- V. AD-247 295

148,564

Office of Technical Services

Temperature measurements in the column of a
Gerdien arc, by R. W. Larens, 27 pp.

GERMAN, per, Z. Physik, 129, p 343-364,
1951.

ABC-SOL-T-123
SLA 58-509

Sci

Aug 59

94, 424

V:
Quadrupole Resonance Frequencies of Cl
and Br Nuclei in Crystalline Dichloroethylene
and Methyl Bromide, by H. G. Dehmelt,
H. Kruger, 16 pp.

Full translation.

GERMAN, per, Z. Physik, Vol CXXIX, 1951,
pp 401-415.

AEC Tr 1736

Scientific - Physics

CTS/DEX

8477

The Performance Limits of Photoelectric Resistances
by H. Mueser.

per
GERMAN, Z. Phys., Vol CXXIX, 1951, pp S504-515.

TPA3/TIB T 3949, P 22327T

EEur - Germany

Individual Scattering of Molecules in a Gas
With Maxwellian Distribution, by J. W. Hiby,
M. Pahl.

GERMAN, per, Zeitschrift fuer Physik, Vol CXXIX,
1951, pp 517-529.

NZDIA

Sci-~~XX~~Phys

Oct 63

241, 408

J. Rotta

Statistical theory of nonhomogenous turbulence. Pt 1,
GERMAN, Zeitschrift fur physik, Vol 129, 1951,
pp 547-572

NASA TT F 14,560

28 7/72

sept 72

Electron Emission of Metal Surfaces as an After-
Effect of a Mechanical Treatment and of a Glow
Discharge, by O. Haxel, F. G. Houtermans,
K. Hoffmann, 21 pp.

X. Secord,

GERMAN, per, Z Physik, Vol CXXI, 1931, pp 109-123.

SEC SCI-T-259

Sci - Phys

Sep 2

96,728

Mass Dependence in the Emission of Electrons
Due to Isotopic Ions, by Werner Floch, 27 pp.

GERMAN, per, Zeitschrift fur Physik, No 130,
1951, pp 174-195.

Amer Meteorol Soc T-0-169

Sci - Phys
Feb 62

184.992

On the Theory of Spin-Lattice Relaxation in
Molecular Crystals, by H. Bayer, 22 pp.

GERMAN, per, Z fur Physik, Vol CXXX, No 2,
1951, pp 227-238.

SLA 60-14004

Sci

OTS, Vol III, No 7

133,036

Nov 60

Discoloration and Luminescence Caused by
Bequerel V Rays and Associated Phenomena,
by K. Przibram, 18 pp.

GERMAN, per, Z Physik, Vol CXXX, 1951, pp 269-
292.

SLA TR 57-778

Sci - Physics

50, 585

Aug 57

On the Theory of Mercury-Cathode Spots,
by Theodor Wasserrab, 16 pp.
GERMAN, per, Zeit fur Physik, Vol CXXX,
1951, pp 311-320. *4705825*
Dept of Navy Tr 4637/ONI Tr 2075

Sci- Phys
May 66

300,742

Theodor Wasserrab

Velocity Distribution of Individually
Scattered Molecules in Gases, by J. W. Hiby,
M. Pahl.

GERMAN, per, Zeitschrift fuer Physik,
Vol ~~KXXX~~ CXXX, 1951, pp 348-355.

NZDIA

Sci-Phys

Oct 63

241, 409

Quadrupole Resonance Frequencies of I^{127}
Nuclei in Crystalline Covalent Iodine
Compounds, by H. G. Dehmelt

Full translation.

GERMAN, per, Z. Physik, Vol CXXX, 1951,
pp 356-370.

AEC Tr 1739

Scientific - Physics

CTS/DEX

8474

Contributions To The Study of Pure Nuclear
Quadrupole Spectra in Crystals, by H. Kruger,
15 pp.

Full translation.

GERMAN, per, Z. Physik, Vol CXXX, 1951,
pp 371-384.

AEC Tr 1743

8473

Scientific - Physics Dec 53 CTS/DEX

The Discoloration of Magnesium Oxide Crystals
by its Own Lattice Members, by Heinrich
Weber, 12 pp.

GERMAN, per, Zeit fuer Physik, Vol CXXX, 1951,
pp 392-402.

A.E.R.E. Harwell
Tr 566

Sci - Physics, Chemistry, magnesia, radiation
32,928

Apr 56

62-16966

Hofbauer, Th. and Koch, K. M.
ON THE MECHANISM OF THE MAGNETIZATION
DISCONTINUITIES. Preliminary Communication.
[1962] 5p. (refs. figs. omitted).
Order from SLA \$1.10

62-16966

Trans. of Zeitschrift für Physik (West Germany)
1951, v. 130, no. 4, p. 409-414.

DESCRIPTORS: Iron, Nickel, Wire, Magnetic fields,
Magnetic effects, Torque, Deformation, Electric
wire, *Magnetism.

It was found that in specimens with preferred direc-
tion of magnetization an auxiliary field at rather
high frequency promotes both the release and the
course of the magnetization discontinuities thus
causing - with given values of the main field - an
increase in value of the saturation magnetization
and of the remanence. (Author)
(Physics--Magnetism, TT, v. 8, no. 10)

I. Hofbauer, T.
II. Koch, K. M.

Office of Technical Services

arrangement numbers for 100 Crystals, by F. Kordt
11 pp.

GERMAN, part, Z. fuer Physik, Vol CXXI, 1951, pp 449-450.
0003728

AEC UCRB Tr-701(L)

Sci - Phys
Dec 61

177, 456

Optical Image with Neutral Atoms, by H. Friedburg,
25 pp.

GERMAN, per, Zeit. fur Physik, Vol 130, 1951,
pp 493-512.

ARM/RSIC/Tr-897-69

GOVERNMENT USE ONLY

Sci/Phy
Mar 69

377,386

The Investigation of Thin Absorbing Films by
Means of the Absolute Phase, by Herwig Schopper,
20 pp.

GERMAN, per, Z fuer Physik, Vol CXXX, 31 Jul
1951, pp 565-584.

CIA 9071185

Sci - Phys

Sep 60

127,133

Arcs With and Without Focal Spots, by
W. Thouret, et al.
GERMAN, per, Zeit Physik, Vol CXXX,
1951. pp 621-631.
NASA TT F-10,172

U. S. GOVERNMENT USE ONLY
Sci-Phys
Jul 66 306,557

Energy Loss of Energy Rich Electrons in Thin Layers
by G. Simoch, K. Westphal, 8 pp.

GERMAN, part, Z. Natur Physik, Vol XXX, 1951,
pp 641-648. 9090457

AEC Tr-4348

176.788

Sci - Phys
Dec 61

Temperature Measurements on the Water Stabilized
High Performance Arcs, by F. Burhorn, H. Maecker,
T. Peters, 13 pp.

GERMAN, per, Zeit fuer Physik, Vol CXXXI, 1951,
pp 28-40.

4-27-55
A.C.S.I, G-5798A
31,303

Sci - Physics

The Quadrupole Resonance Spectrum in Crystalline Antimony Trichloride and the Ratio of the Antimony Nuclear Quadrupole Moments, by H. G. Dehmelt, H. Kruger, 8 pp.

Full translation.

GERMAN, per, Z. Physik, 1951, pp 385-391.

AEC-Tr 1742

8472

Scientific - Physics

Dec 53

CTS/DEX

Statistical Theory of Nonhomogeneous
Turbulence, Part II, by J. C. Rotta.
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GERMAN, per, Zeitschrift für Physik,
Vol 131, 1951, pp 51-77.
NASA TT P-11,696

Sci/Phys
Oct 68

369,118

Concerning the Validity of Babinet's Theorem, by
H. Boersch, 6 pp.

GERMAN, per, Zeit. fur Physik, Vol 131, 1951,
pp 78-81. P200260768-V

RSIC-748

GOVERNMENT USE ONLY

Sci/Phy
Nov 68

368,916

Area With and Without Focal Spots,
by W. Weisai.
GERMAN, par, Z. Physik, Vol CXXXI,
1952, pp 170-184.
*NASA TT F-10,173

U. S. GOVERNMENT USE ONLY
Sci-Figs
Jul 66

Image Error of Mass Spectrometer as a Result of
Space Charge and Magnetic Field Saturation, by
E. W. Becker, W. Walcher, 13 pp. UNCLASSIFIED

Full translation.

GERMAN, per, Zeitschrift fuer Physik, Vol CXXXI, 1952,
pp. 395-407.

Navy Tr 653/NRL 407

Scientific - Physics

Sep 52 CTS/DEX

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D 2232439

NTC 70-23258

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and Compression Viscosity, by J. Meixner, 12 p.

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SEA 59-17940

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Investigations on Explosions in Mines, by B. H. H. H. H.

CHRYN, J. R. Hys, Vol CXXII, 1999, pp 54-71.

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The Influence of Contraction on the
Temperature and Field Strength at the
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I. Schottky, W.

Schottky, W.
ON THE HIGH-FREQUENCY BEHAVIOR OF
BARRIER-LAYER RECTIFIERS. [1961] 27p. 16 refs.
Order from SLA \$2.60 61-18254

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DESCRIPTORS: High frequency, Reaction kinetics,
Mathematical analysis, Impedance, Resistance, *Semi-
conductors, *Crystal detectors, *Crystal rectifiers,
Electrostatic capacitance.

187243

Office of Technical Services

(Physics--Solid State, TT, v. 6, no. 10)

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Ground State of the Atomic Nucleus, by S. Flugge,
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The Super-Conductance of Niobium Nitride (Third Report
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FSTC 381-T64-114

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Electrical Resistance of Thin Films of Tin With
Lattice Dislocations, by J. Niebuhr, 23 pp.

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SLA 60-18799

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63-16637

Kaiser, Wolfgang.

A NEW LIGHT ABSORPTION IN SILVER HALIDES.

[1963] 14p. 25 refs.

Order from SLA \$1.60

63-16637

I. Kaiser, W.

Trans. of Zeitschrift für Physik (West Germany) 1952,
v. 132, p. 497-507.

DESCRIPTORS: Light, Absorption, Silver, *Silver
compounds, *Halides, Chlorides, Absorption spectrum,
Colloids.

By using thin layers, the optically accessible spectral
region is extended towards shorter wave lengths. In a
pre-examination, it was demonstrated that the un-
populated centers of disturbance originating in the
course of condensation influence the absorption con-
stant. At low condensation temperatures, the end of
the absorption curve, because of a high order of de-
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Self-Diffusion on the Surface of Copper,
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The Arc Form of the High-Pressure Discharge in
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~~A.C.S. 261-627~~

Scientific - Physics

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Excitation of the Solar-Irradiated
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Measurement of Quantum-Mechanical Operators, by
E. P. Wigner, 9 pp.

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10/1/56/

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ABC Tr-506a

Sci - Phys

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Hiedemann, E. A. and Spence, R. D.
ON A UNIFIED THEORY OF RELAXATION
PHENOMENA. [1963] 18p. (figs. refs. omitted).
Order from SLA \$1.60 63-14649

Trans. of Zeit[schrift] f[ür] Physik (West Germany)
1952, v. 133, p. 109-[117].

DESCRIPTORS: Materials, *Elasticity, *Stresses,
Deformation, *Relaxation time, Theory, Linear
systems, Analog systems, Harmonic analysis,
*Statistical functions.

The concept of relaxation signifies in its present day
form a property of the response of linear systems. The
assumption of causal succession of events in which the
response must, as the effect, follow the cause, namely,
the excitation of the system---is sufficient for the
derivation of a unified theory of relaxation phenomena.
The derivation presented in this paper is based on func-
(Mechanics, TT, v. 10, no. 7) (over)

63-14649

I. Hiedemann, E. A.
II. Spence, R. D.

Office of Technical Services

R-479-N/A

Über das Elektronenaffinitätsspektrum
Neutraler Wasserstoffatome, by W. Lochte-
Holtgreven,

GERMAN, per, Z fuer Physik, Vol CXXXIII, 1952,
pp 124-133.

*JPRS for Army Rocket and
Guided Missile Agency

Sci - Phys

1 Mar 61

Electric Arcs With and Without Focal
Spots, by W. Weisel, W. Thouret.
GERMAN, per, Zeit Physik, Vol CXXXI,
1952, pp 170-184.
NASA TT F-10,173

Sci-Elect

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active Isotopes in Homogeneous Substances, by
K. Sommermeyer, 20 pp. UNCLASSIFIED

Full translation.

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pp 201-238.

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Excitation and Curve as Function of Time of the
Aurora Afterglow in Nitrogen, by G. Cario,
et al.

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Ruth Warminsky, 19 p.

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(FDD 20542)

Focusing Properties of a Combination Consisting of
a Magnetic Field That Decreases With the Radius
and an Electrical Field, by Dietert Fischer, 28 pp.

Full translation

GERMAN, no per, Zeitschrift für Physik, Vol CXXXIII,
Berlin 1952, pp 455-470.

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WEur - West Germany

Sci - Physics, electron optics

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Mass Spectrometer With Double Direction-Focusing and
Velocity Focusing, by Dietert Fischer, 22 pp.

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H WJur - Germany

Scientific - Physics, mass spectrometer

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